

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L549	2	"6282455".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L548	37	L541 html	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L547	2	"6615091".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L546	0	hmi same vrml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L545	2913	(horizontal same vertical same tree)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L544	39	hmi same html	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L543	2	"5420977".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L542	53	(horizontal same vertical same tree) industrial rotate aligned	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01

## EAST Search History

L541	82	(HMI with development )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L540	71	(horizontal same vertical same tree) industrial rotate	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L539	71	horizontal vertical hierarchy arrangement VRML	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L538	17	(arora samir).inv.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L537	0	(arora samir).inv.	DERWENT	AND	ON	2007/10/01 05:01
L536	192	(horizontal same vertical same tree) industrial	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L535	37	L533 industrial plant	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L534	3	L533 HMI	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L533	1936	(horizontal adj (tree or layout or arrangement or configuration or hierarchy)) (vertical adj (tree or layout or arrangement or configuration or hierarchy))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L532	0	(horizontal adj (tree or layout or arrangement or configuration or hierarchy)) (vertical adj (tree or layout or arrangement or configuration or hierarchy)) VRML	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L531	481	arora.inv.	DERWENT	AND	ON	2007/10/01 05:01
L530	13	("5302103"   "5736080"   "5852722"   "6137408"   "6275741"   "6393807"   "6466154").PN. OR ("6684264"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L529	1	1998-130869.NRAN.	DERWENT	AND	ON	2007/10/01 05:01
L528	59	("5446837"   "5632022"   "5634062"   "5634095"   "5644736"   "5644740"   "5701137"   "5745360"   "5748186").PN. OR ("5911145"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L526	20	((vertical\$4 horizont\$5) same (tree or hierarch\$6)) vrml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01

## EAST Search History

L525	10626	(vertical\$4 horizont\$5) same (tree or hierarch\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L524	18	vrml.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L523	7446	(types! with tree)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L522	474	(types! with tree) "715".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L521	16	(types! with tree) "715".clas. vrml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L520	107	(vrml with (hierarch\$5 OR tree))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L519	0	(vrml with (hierarch\$5 OR tree)) HMI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01

## EAST Search History

L518	64	(vrml with hierarch\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L517	0	(vrml with hierarch\$5) HMI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L516	42	tree.ti. "715".clas. horizontal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L515	177	tree.ti. "715".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L514	3	(vertical\$4 with (hierarchy or tree)) (horizontal\$4 with (hierarchy or tree)) VRML	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L513	36	L509 "715".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L512	2	"5911145".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01

## EAST Search History

L511	12	((vertical\$4 horizont\$5) vrml (spaced with equal\$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L510	3	(vertical\$4 with (hierarchy or tree or (layout tree))) (horizontal\$4 with (hierarchy or tree or (layout tree))) VRML	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L509	530	(vertical\$4 near2 (hierarchy or tree)) (horizontal\$4 near2 (hierarchy or tree))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L508	0	(vertical\$4 near2 (hierarchy or tree)) (horizontal\$4 near2 (hierarchy or tree)) vrml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L507	0	715/854.ccls. (vertical\$4 near2 (hierarchy or tree)) (horizontal\$4 near2 (hierarchy or tree)) vrml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L506	2	715/854.ccls. vertical horizontal vrml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L505	728	715/854.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01

## EAST Search History

L504	81	715/858.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L503	2	(715/855.ccls. or 715/854.ccls. or 715/853.ccls.) vertical horizontal vrml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L502	183	715/853.ccls. vertical horizontal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L501	30	(vertical adj tree) (horizontal adj tree)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L500	872	715/853.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L499	1324	(Rockwell Automation).as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L498	12	((man or human) adj machine adj interface) industrial graphical hierarchy parent hmi scada visualization	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01

## EAST Search History

L497	3	(intelligent adj hmi) objects	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L496	16	((man or human) adj machine adj interface).clm. industrial graphical hierarchy parent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L495	81	((man or human) adj machine adj interface) industrial graphical hierarch\$5 parent hmi	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L494	1	((man or human) adj machine adj interface).clm. industrial graphical hierarchy (equal\$4 adj spac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L493	105	Siemens.as. HMI	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L492	80	yufeng.inv.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L491	943	((man or human) adj machine adj interface).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L490	189412	Siemens.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L489	94	((man or human) adj machine adj interface).clm. industrial graphical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01

## EAST Search History

L488	9	Siemens.as. HMI parent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L487	221	((man or human) adj machine adj interface).clm. industrial	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L486	8	ihmi objects	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L485	32	((man or human) adj machine adj interface).clm. industrial graphical hierarchy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L484	2	"6853920".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L483	2	"20040024657".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L482	3	("6904387").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L481	16	("20030232176" "4290248" "4721589" "5007818" "5149193" "5362222" "5812394" "6156842").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01



## EAST Search History

L480	5	L479 overlap	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L479	7	L478 drag\$3	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L478	12	L454 node parent	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L477	35	L454 node	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L476	26	L454 collection	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L475	29011	((Configur\$3 or edit\$3) (Process adj Control))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L474	27	("4812996" "4868785" "4884228" "5136705" "5155836" "5309352" "5481741" "5630164" "5801942" "5812394" "5828851" "5838563" "5966532" "5970471" "5991537" "5861882" "6053951" "6061057" "6064816" "6083267" "6098028" "6167383" "6173438" "6219628" "6339763" "6078320" "6985876").PN.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L473	13	"715".clas. (industrial with process)(drop\$3 or drag\$3) position parent ((virtual adj instrument) or (virtual adj panel) or (screen adj node))	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L472	11	"715".clas. (industrial with process)(drop\$3 or drag\$3) position parent ((virtual adj instrument) or (virtual adj panel))	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L471	38	"715".clas. (industrial with process)(drop\$3 or drag\$3) position parent	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L470	12	L468 (drop\$3 or drag\$3) position	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L469	24	L468 (drop\$3 or drag\$3)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01

## EAST Search History

L468	47	("20020144282"   "20030036871"   "20030036874"   "20030036875"   "20030036876"   "20030058280"   "20030066065"   "20030163298"   "4812996"   "4868785"   "4884228"   "5136705"   "5155836"   "5481741"   "5630164"   "5752042"   "5812394"   "5845077"   "5966532"   "5970471"   "5974454"   "5991537"   "6049789"   "6053951"   "6064816"   "6074434"   "6083267"   "6098028"   "6105063"   "6167383"   "6173438"   "6219628"   "6266774"   "6269456"   "6339763"   "6367077"   "6493871"   "6535911"   "6681351"   "6701513"   "6732296"   "6751794"   "6785805").PN. OR ("6889172").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L467	1	2003-466375.NRAN.	DERWENT	AND	ON	2007/10/01 05:01
L466	6	( ONLINE MEASUREMENT SYSTEM).ti.	US-PGPUB	AND	ON	2007/10/01 05:01
L465	1	2003-456454.NRAN.	DERWENT	AND	ON	2007/10/01 05:01
L464	1	"20030036873".pn.	DERWENT	AND	ON	2007/10/01 05:01
L463	10	("2003/0036871").URPN.	USPAT	AND	ON	2007/10/01 05:01
L462	1	2003-466375.NRAN.	DERWENT	AND	ON	2007/10/01 05:01
L461	3	( ONLINE CONFIGURATION MEASUREMENT SYSTEM).ti.	DERWENT	AND	ON	2007/10/01 05:01
L460	2	"US 20030036873"	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2007/10/01 05:01
L459	11	L458 industrial	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L458	24	(US-20030023518-\$ or US-20030028269-\$ or US-20030101021-\$ or US-20030191608-\$).did. or (US-6854111-\$ or US-5432897-\$ or US-7017116-\$ or US-6053951-\$ or US-6975914-\$ or US-5870559-\$ or US-6054986-\$ or US-6144962-\$ or US-6684264-\$ or US-6549221-\$ or US-5812135-\$ or US-4914568-\$ or US-5606654-\$ or US-5838563-\$ or US-6618856-\$ or US-6754885-\$ or US-6067093-\$ or US-5493678-\$ or US-6067477-\$ or US-6259458-\$).did.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L457	22	("5812135").URPN.	USPAT	AND	ON	2007/10/01 05:01
L456	4172	L455 calcula\$4	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01

## EAST Search History

L455	9656	((human adj machine adj interface) or (HMI) or (man adj machine adj interface))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L454	88	L452 or L453	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L453	88	L449 or L450	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L452	10	((Configur\$3 or edit\$3) ((industrial adj plant) or (Process adj Control))).ti.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L451	2	L449 L450	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L450	10	((Configur\$3 or edit\$3) (Process adj Control)).ti.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L449	80	("3665172"   "4006464"   "4302820"   "4413314"   "4443861"   "4639852"   "4641269"   "4663704"   "4672530"   "4682158"   "4704676"   "5121318"   "5124908"   "5129087"   "5140677"   "5164894"   "5168441"   "5202961"   "5251125"   "5307346"   "5309556"   "5371895"   "5377315"   "5384910"   "5392389"   "5394522"   "5408603"   "5420977"   "5426732"   "5428734"   "5432711"   "5437007"   "5444851"   "5452201"   "5459825"   "5461710"   "5467264"   "5475856"   "5481741"   "5485620"   "5491791"   "5500934"   "5504672"   "5504902"   "5513095"   "5519605"   "5530643"   "5546301"   "5549137"   "5550980"   "5559691"   "5566320"   "5576946"   "5594858"   "5621871"   "Re33162").PN. OR ("5940294").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L448	13847	((human adj machine adj interface) or (HMI) or (man adj machine adj interface))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L447	4	(industrial adj plant) iconic\$4 Hierarchic\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01

## EAST Search History

L446	2	(industrial adj plant) (automated with ( machine adj controller)) (hmi or mmi) Hierarchic\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L445	143	(automated with ( machine adj controller))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L444	13	(automated adj machine adj controller)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L443	65	"715".clas. (parent with overlap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L442	40	L439 Hierarch\$6.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L441	20	L440 (drag\$3 or drop\$3)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L440	34	L439 Hierarchic\$4	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L439	102	L438 industrial	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L438	544	(715/965.ccls. or 715/966.ccls. or 715/967.ccls. or 715/969.ccls. or 715/970.ccls.)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L437	253	(industrial adj plant).ab.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L436	2921	(industrial adj plant).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01

## EAST Search History

L435	68	(updat\$3) hierarchy (drag\$3 or drop\$3 or "on top") (industrial adj plant)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L434	4	L418 drag drop	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L433	0	((updat\$3) with hierarchy) (drag\$3 or drop\$3 or "on top") (industrial adj plant)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L432	7	(vertical\$5 with tree) (horizontal\$5 with tree) (drag\$4 drop\$4) ((manufactur\$3 or industrial or automation or process\$3 or scada) near3 plant)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L431	1	"6282454".pn.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L430	1	L413 drag with top	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L429	39	"5911145" process control	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L428	51	"5911145" process	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L427	2	"6282454".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L426	1	industrial (recursively with update with (hierarchy or tree))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L425	2	(recursively with updat\$3) hierarchy (drag\$3 or drop\$3 or "on top") (industrial adj plant)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L424	6	(update with (hierarchy or tree)) (industrial plant).ab.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L423	31	(Industrial plant).ti.	US-PGPUB	AND	ON	2007/10/01 05:01

## EAST Search History

L422	140	(Industrial plant).ti.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L421	33	(recursively same (update with (hierarchy or tree)))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L420	1	industrial (recursively same (update with (hierarchy or tree)))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L419	8	((updat\$3) with (hierarchy or tree or link)) (drag\$3 or drop\$3 or "on top") (industrial adj plant)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L418	66	("4399513"   "4413314"   "4644479"   "4803039"   "4872121"   "4985857"   "5202828"   "5291416"   "5311562"   "5559691"   "5602757"   "5623109"   "5631825"   "5675752"   "5719796"   "5748881"   "5822743"   "5826251"   "5838588"   "5854994"   "5859885"   "5870698"   "5877961"   "5899990"   "5905985"   "5905989"   "5918225"   "5963884"   "5995916"   "RE31750").PN. OR ("6421571"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:01
L417	58	"5911145"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L416	2	(recursively with updat\$3) hierarchy (drag\$3 or drop\$3) (industrial adj plant)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L415	15	L414 (drop or drag)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L414	25	("4812996" "4868785" "4884228" "5 136705" "5155836" "5481741" "5630 164" "5812394" "5966532" "5991537 " "5309352" "5801942" "5828851" "5 838563" "5970471" "6053951" "6061 057" "6064816" "6098028" "6173438 " "6219628" "6785805" "6083267" "6 167383" "6339763").PN.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01

## EAST Search History

L413	22	(US-20030028269-\$ or US-20030101021-\$ or US-20030191608-\$ or US-20030023518-\$).did. or (US-6054986-\$ or US-4914568-\$ or US-6975914-\$ or US-6854111-\$ or US-6067477-\$ or US-6754885-\$ or US-6618856-\$ or US-7017116-\$ or US-6259458-\$ or US-6067093-\$ or US-5606654-\$ or US-5432897-\$ or US-6144962-\$ or US-5870559-\$ or US-5493678-\$ or US-6549221-\$ or US-6684264-\$ or US-5812135-\$).did.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L412	3	"5911145" industrial	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:01
L411	2	(recursively with updat\$3) hierarchy (drag\$3 or drop\$3 or "on top of") (industrial adj plant)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:01
L410	2	"6421571".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L409	3	("6055369"   "20010029506"   "5926180").pn.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L408	1	industrial (recursively same update with (hierarchy or tree))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L407	14	"5911145" process with control	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L406	3	("5546521" "5777616" "6347800").PN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L405	1	"20060256084".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L404	10	("5812394"   "5822206"   "6161051").PN. OR ("6477435").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00

## EAST Search History

L403	20	("20050004781" "5072412" "5247433" "6189019" "6587108" "6795798" "6888554" "6889096" "6947798" "6966033").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L402	23	industrial ((drag or drop) same (recursive\$3))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L401	16	industrial plant (drag drop) (recursive\$3) tree	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L400	40	industrial plant (drag drop) (recursive\$3)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L399	2	industrial ((drag drop) same (recursive\$3))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L398	2	industrial plant (drag adj drop) (recursively with updat\$3)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L397	18	"6282455"	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L396	7	(vertical\$5 with tree) (horizontal\$5 with tree) (drag\$4 drop\$4) ((manufactur\$3 or industrial or automation or process\$3) near3 plant)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L395	106	(vertical\$5 with tree) (horizontal\$5 with tree) (drag\$4 drop\$4)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L394	2180	(vertical\$5 with tree) (horizontal\$5 with tree)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L393	28	(vertical adj tree) (horizontal adj tree)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L392	11	industrial plant (drag adj drop) recursively	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L391	1262	(automated )(machine adj controller)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L390	26	((manufactur\$3 or industrial or automation or process\$3) near3 plant) (updat\$3 with hierarchy)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L389	292	(automated )(machine adj controller) cell control	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L388	16	((manufactur\$3 or industrial or automation) near3 plant) (updat\$3 with hierarchy)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L387	1	(industrial near3 plant) (updat\$3 with hierarchy)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L386	3	(715/967.ccls.) (updat\$3 with hierarchy)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00



## EAST Search History

L385	3	(automated )(machine adj controller) (cell adj control)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L384	292	(automated )(machine adj controller) (cell control)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L383	11	(automated adj machine adj controller)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L382	48	(drop same (updat\$3 with hierarchy))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L381	2	((715/967.ccls.)) (drop with top)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L380	8	((715/967.ccls.) OR (715/771.ccls.)) industrial (drop with top)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L379	2	(industrial with plant) (automated with controller) (recursively with update)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L378	1	(10/196007).APP.	USPAT; USOCR	AND	ON	2007/10/01 05:00
L377	14	(node with overlap) industrial plant	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L376	38	(node with collision) industrial plant	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L375	254	(node with collision) industrial	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L374	2	"20040128120".pn. or "20040073404".pn.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L373	8	industrial plant (parent adj node) recursively	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L372	120	industrial (parent adj node) recursively (not (INDUSTRIAL adj APPLICABILITY))	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L371	1	"6477435".pn.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L370	10	("20050004781" "5072412" "5247433 " "6189019" "6587108" "6795798" "6 888554" "6889096" "6947798" "6966 033").PN.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L369	3	"6,889,096"	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L368	1	"7165226".pn.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L367	23	((715/967.ccls.) OR (715/771.ccls.)) (parent with node)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L366	131	industrial (parent adj node) recursively	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00

## EAST Search History

L365	2	((715/967.ccls.) OR (715/771.ccls.)) (parent adj node) recursively	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L364	2	((715/967.ccls.) OR (715/771.ccls.)) (parent adj node) parent node recursively	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L363	8	((715/967.ccls.) OR (715/771.ccls.)) (parent adj node) parent node	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L362	8	((715/967.ccls.) OR (715/771.ccls.)) (parent adj node)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L361	9	((715/967.ccls.) OR (715/771.ccls.)) (parent with position)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L360	12	((715/967.ccls.) OR (715/771.ccls.)) (parent with node) hierarchy	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L359	78	("4591983"   "4628435"   "4644479"   "4719586"   "4803039"   "4815014"   "4839823"   "4853175"   "4855923"   "4858102"   "4947095"   "5068080"   "5099436"   "5119318"   "5148363"   "5161110"   "5189604"   "5195029"   "5214577"   "5216612"   "5239547"   "5249260"   "5251144"   "5267141"   "5305426"   "5333240"   "5355444"   "5398304"   "5402526"   "5403447"   "5406502"   "5412756"   "5414632"   "5442562"   "5463545"   "5463567"   "5511004"   "5521844"   "5541832"   "5557549"   "5559691"   "5561610"   "5617514"   "5630025"   "5659743").PN. OR ("5905989"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L358	1	"5905989".pn.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L357	6	((715/967.ccls.) OR (715/771.ccls.)) industrial (drag or drop) (parent same node)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L356	6	((715/967.ccls.) OR (715/771.ccls.)) industrial (drag or drop) parent same node	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L355	12	((715/967.ccls.) OR (715/771.ccls.)) industrial (drag or drop) parent node	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L354	56	((715/967.ccls.) OR (715/771.ccls.)) industrial (drag or drop)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L353	22	715/967.ccls. industrial (drag or drop)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00

## EAST Search History

L352	22	715/967.ccls. industrial (drag or drop)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L351	43	715/967.ccls. industrial	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L350	195	715/967.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L349	5	((hmi or (human adj machine adj interface)) with edit\$3) position (dragged with top)	US-PGPUB	AND	ON	2007/10/01 05:00
L348	22	(hmi with editor) position	US-PGPUB	AND	ON	2007/10/01 05:00
L347	25	(hmi with editor)	US-PGPUB	AND	ON	2007/10/01 05:00
L346	0	(industrial adj process).clm. GUI editor.ti.	US-PGPUB	AND	ON	2007/10/01 05:00
L345	10	(hmi with editor) "715".clas.	US-PGPUB	AND	ON	2007/10/01 05:00
L344	15	(industrial adj process).clm. GUI	US-PGPUB	AND	ON	2007/10/01 05:00
L343	413	(industrial adj process).clm.	US-PGPUB	AND	ON	2007/10/01 05:00
L342	31	((hmi or (human adj machine adj interface)) with edit\$3) position	US-PGPUB	AND	ON	2007/10/01 05:00
L341	3	(process editor).ti.	US-PGPUB	AND	ON	2007/10/01 05:00
L340	451	(industrial near process).clm.	US-PGPUB	AND	ON	2007/10/01 05:00
L339	1916	(industrial process).clm.	US-PGPUB	AND	ON	2007/10/01 05:00
L338	188	(industrial process).ti.	US-PGPUB	AND	ON	2007/10/01 05:00
L337	1068	hmi process	US-PGPUB	AND	ON	2007/10/01 05:00
L336	55	(process with visualization) (drag with drop) editor	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L335	0	(process with visualization) (drag with drop)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L334	154	(Industrial adj plant).clm.	USPAT	AND	ON	2007/10/01 05:00
L333	559	(Industrial plant).ab.	USPAT	AND	ON	2007/10/01 05:00

## EAST Search History

L332	5	L320 (parent with position)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L331	5	L320 (parent same position)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L330	55808	process visualization	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L329	31	(HMI adj screens) parent	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L328	70	HMI adj screens	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L327	542	(Industrial plant).clm.	USPAT	AND	ON	2007/10/01 05:00
L326	0	L320 (parent with adjusting) recursivlyu	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L325	6	HMI adj user adj screens	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L324	3	(HMI adj screens) (drag with drop)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L323	5	L320 position	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L322	9	(Industrial adj plant).ti. vertical horizontal	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L321	5	L320 parent position	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L320	5	(Industrial plant).ti. vertical horizontal GUI	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L319	232	(Industrial adj plant).clm.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L318	101	(process with visualization) (drag with drop) hierarchy	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L317	48	(Industrial adj plant).ti.	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L316	172	(process wit\h visualization) (drag with drop)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L315	3	(process with visualization) (Supervisory adj Control adj system) (drag with drop) hierarchy	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L314	172	(process with visualization) (drag with drop)	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L313	1	2004-315841.NRAN.	DERWENT	AND	ON	2007/10/01 05:00
L312	98	(Industrial plant).ti.	USPAT	AND	ON	2007/10/01 05:00

## EAST Search History

L311	1	2004-315841.NRAN.	DERWENT	AND	ON	2007/10/01 05:00
L310	30	(Industrial plant).ti. vertical horizontal	US-PGPUB; USPAT	AND	ON	2007/10/01 05:00
L309	2	hierarchi\$5 node tree HMI (drag near3 drop) (parent with (updat\$3 or refresh or recreate or restore or regenerate or correct))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L308	20	L303 position	US-PGPUB; USPAT; JPO	AND	ON	2007/10/01 05:00
L307	17	(Arora Samir).inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L306	158	(tree adj structure) near3 (editor or editing)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L305	2	L303 (relocat\$3 near3 node)	US-PGPUB; USPAT; JPO	AND	ON	2007/10/01 05:00
L304	7	L303 (position near3 node)	US-PGPUB; USPAT; JPO	AND	ON	2007/10/01 05:00
L303	24	(US-20020120921-\$ or US-20030191608-\$).did. or (US-4914568-\$ or US-5432897-\$ or US-5606654-\$ or US-5870559-\$ or US-5911145-\$ or US-6054986-\$ or US-6067477-\$ or US-6144962-\$ or US-6259458-\$ or US-6549221-\$ or US-6618856-\$ or US-6684264-\$ or US-6754885-\$ or US-6889096-\$ or US-6975914-\$ or US-7017116-\$ or US-5386459-\$ or US-6862105-\$ or US-6067093-\$ or US-5493678-\$ or US-5812135-\$).did. or (JP-05307476-\$).did.	US-PGPUB; USPAT; JPO	AND	ON	2007/10/01 05:00
L302	2	"5911145".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00

## EAST Search History

L301	20	("4524421"   "4613946"   "4710763"   "4841292"   "5333254"   "5557714"   "5592599"   "5619632"   "5774669"   "5786820"   "5877775").PN. OR ("6259458").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L300	138	L267 position	US-PGPUB; USPAT; JPO	AND	ON	2007/10/01 05:00
L299	9	(NetObjects).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L298	31	(tree adj structure) near3 (editor or editing) (drag\$3 with drop\$3)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L297	172	(become near3 new near2 (parent or root)) (tree or hierarch\$4)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L296	201	((tree adj structure) near3 edit\$3)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L295	99	(become near3 new near3 parent) (tree or hierarch\$4)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L294	152	(become near3 new near3 parent)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L293	90	(become near3 new near3 parent) (tree or hierarchy)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L292	34	(tree or hierarchy) (relocate near3 node)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L291	9	(dynamic near3 (tree or hierarchy)) with edit\$3	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L290	231	(dynamic near3 (tree or hierarchy)) editor	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L289	417	(dynamic near3 (tree or hierarchy)) visual	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00

## EAST Search History

L288	35	715/853.ccls. ((Collision or overlap\$3 or intersec\$4) with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L287	35	715/853.ccls. ((Collision or overlap\$3 or intersec\$4) with object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L286	1	715/853.ccls. (Collision with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L285	12	715/853.ccls. Collision	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L284	134	(shift with (parent or root or node) with right) tree	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L283	383	(shift with (parent or root or node) with right)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L282	117	(Tree adj View adj Control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00

## EAST Search History

L281	78	(drop adj node) editor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L280	1365	drop adj node	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L279	61	(node with automatic\$4 with (((intersection or overlap or collide or collision or intersection)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L278	5	715/853.ccls. (node with automatic\$4 with drop)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L277	0	715/853.ccls. (node near3 automatic\$4) with insert	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L276	2	"5911145".pn. automatic\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L275	49	715/853.ccls. (node near3 automatic\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00



## EAST Search History

L274	2	715/853.ccls. (node near3 automatic\$4) with drop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L273	26	715/853.ccls. ((intersection OR overlap or collide or collision or intersection or junction or overlap or overlie) with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L272	34	715/853.ccls. ((intersection OR overlap or collide or collision or intersection or junction or overlap or covering or overlie) with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L271	37	715/853.ccls. ((intersection OR overlap or collide or collision or intersection or junction or overlap or cover or overlie) with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L270	83	715/853.ccls. (node near3 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L269	15	715/853.ccls. (adjust near3 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L268	98	715/853.ccls. ((node or root or parent) near3 position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00

## EAST Search History

L267	138	715/853.ccls. ((node or root or parent) with position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L266	4	715/853.ccls. (vertical adj tree)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L265	118	715/853.ccls. shift	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L264	50	715/853.ccls. (updat\$3 near3 (parent or node or root))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L263	4	("5911145" "6237006" "6282454" "6421571").PN.	USPAT	AND	ON	2007/10/01 05:00
L262	14	715/853.ccls. (reorder)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L261	40	("4075689"   "4318184"   "4447875"   "4468728"   "4611298"   "4613946"   "4656603"   "4677550"   "4710763"   "4763277"   "4764867"   "4813010"   "4817036"   "4831525"   "4860204"   "4866635"   "4868743").PN. OR ("5493678").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L260	338	715/853.ccls. (updat\$3 (parent or node or root))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00

## EAST Search History

L259	872	715/853.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L258	36	(hierarchic\$5 tree) (re adj position) node	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L257	50	(tree near3 structure near3 editor)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L256	12516	(hierarchic\$5 tree) (editor or editing or modifying)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L255	89	(visual adj tree)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L254	58	("4606002"   "4611272"   "4945475"   "5058144"   "5202986"   "5230047"   "5257365"   "5293616"   "5295261"   "5333317"   "5377281"   "5392363"   "5404510"   "5418947"   "5487166"   "5488717"   "5495609"   "5497485"   "5528701"   "5530957"   "5534861"   "5551027"   "5557786"   "5560007"   "5644763"   "5649023"   "5651099"   "5664172"   "5694591"   "5701467"   "5717921"   "5737732"   "5752243"   "5761652"   "5765168"   "5768423"   "5781772"   "5787430"   "5799184"   "5799299"   "5809296"   "5832182"   "5842196"   "5848416"   "5873087"   "5884297"   "5963956"   "5970170"   "6014659"   "6041053"   "6153591"   "6175835"   "6208993"   "6240418").PN. OR ("6675173"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00

## EAST Search History

L253	16	715/853.ccls. (layout with automatic\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L252	30	(vertical adj tree) (horizontal adj tree)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L251	486	(dynamic near3 (tree or hierarchy)) edit\$3	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L250	153	(vertical adj tree)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L249	3	((hierarchical or tree)) (((parent or root or top) with node) with (drag adj over))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L248	60	(hierarchic\$5 tree) (re adj position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L247	6	715/853.ccls. (layout with automatic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00

## EAST Search History

L246	152	L245 automatic\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L245	227	715/853.ccls. layout	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L244	16	715/853.ccls. (adjusting with position )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L243	2	"7035898".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L242	239	detect\$4 same (collision with between with nodes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L241	553	detect\$4 (collision with between with nodes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L240	2	"5911145".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00

## EAST Search History

L239	166	((hierarchical or tree)) (((parent or root or top) with node) near5 ((drag\$3 or drop\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 05:00
L238	3	(edit\$3 with (hierarchical or tree) near3 display) (((parent or root) with node) with ((intersect\$3 or overlap\$3 or collide or collision) with node))	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L237	59	(edit\$3 with (hierarchical or tree) near3 display) (((parent or root) with node) same (updat\$3 or position\$3 or locat\$3 or place\$4 or new or becom\$3))	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 05:00
L236	9	(edit\$3 with hierarchical near3 display) (((parent or root) with node) same (updat\$3 or position\$3 or locat\$3 or place\$4 or new or becom\$3))	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
L235	7	(edit\$3 with hierarchical near3 display) (((parent or root or (top adj level) or (top adj most) or father or mother) near3 node) same (updat\$3 or position\$3 or locat\$3 or place\$4 or new or becom\$3))	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
L234	35	(hierarchical near3 display) (((parent or root or (top adj level) or (top adj most) or father or mother) near3 node) same (updat\$3 or position\$3 or locat\$3 or place\$4 or new or becom\$3)) ((intersect\$3 or overlap\$3 or collide or collision) with node)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
L233	71	(hierarchical display).ti.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
L232	112	L223 L230	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
L231	8	L230 (((parent or root or (top adj level) or (top adj most) or father or mother) near3 node) with (updat\$3 or position\$3 or locat\$3 or place\$4 or new or becom\$3)) ((intersect\$3 or overlap\$3 or collide or collision) with node)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59

## EAST Search History

L230	353	("20030050915"   "3816726"   "4524421"   "4528643"   "4613946"   "4698752"   "4710763"   "4719571"   "4807158"   "4833592"   "4841292"   "4868771"   "4928247"   "4994989"   "5043920"   "5072395"   "5150457"   "5164904"   "5201047"   "5226120"   "5228119"   "5247517"   "5247666"   "5251131"   "5253333"   "5276789"   "5282262"   "5295243"   "5295244"   "5297241"   "5303388"   "5307456"   "5325445"   "5333254"   "5337404"   "5339390"   "5379422"   "5386394"   "5394522"   "5412772"   "5418946"   "5420968"   "5426780"   "5428744"   "5459829"   "5463773"   "5467444"   "5479597"   "5504863"   "5515486"   "5515488"   "5519865"   "5526478"   "5528735"   "5546529"   "5553163"   "5555354"   "5557714"   "5559942"   "5572640"   "5592599"   "5604821"   "5619632"   "5623590"   "5634087"   "5644740"   "5659731"   "5671333"   "5671381"   "5675711"   "5675785"   "5675786"   "5678015"   "5680476"   "5684967"   "5694524"   "5696964"   "5706495"   "5715432"   "5724573"   "5727199"   "5732230"   "5737487"   "5748852"   "5751965"   "5761664"   "5761667"   "5774669"   "5786820"   "5787274"   "5802383"   "5821937"   "5861891"   "5870768"   "5877775"   "5958008"   "5966128"   "6055539"   "6067093"   "B14555775").PN. OR ("5450535"   "5590250"   "5877766"   "6067093"   "6111578"   "6137493"   "6137499"   "6219053"   "6259451"   "6259458"   "6922692").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
L229	12	L223 (((parent or root or (top adj level) or (top adj most) or father or mother) near3 node) with (updat\$3 or position\$3 or locat\$3 or place\$4 or new or becom\$3)) ((intersect\$3 or overlap\$3 or collide or collision) with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L228	27	L223 (((parent or root or (top adj level) or (top adj most) or father or mother) near3 node) with (updat\$3 or position\$3 or locat\$3 or place\$4 or new or becom\$3)) (intersect\$3 or overlap\$3 or collide or collision)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L227	226	((hierarchical or tree)) (((parent or root or top) with node) with ((drag\$3 adj over) or drop))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L226	3	((hierarchical or tree)) (((parent or root or top) with node) near5 ((drag\$3 adj over) or (drop adj over)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L225	22	(US-20030191608-\$ or US-20020120921-\$).did. or (US-6259458-\$ or US-6054986-\$ or US-5606654-\$ or US-5432897-\$ or US-5386459-\$ or US-6067477-\$ or US-6975914-\$ or US-6889096-\$ or US-6754885-\$ or US-6618856-\$ or US-7017116-\$ or US-4914568-\$ or US-5301301-\$ or US-6862105-\$ or US-6144962-\$ or US-5911145-\$ or US-5870559-\$ or US-6549221-\$ or US-6684264-\$).did. or (JP-05307476-\$).did.	US-PGPUB; USPAT; JPO	AND	ON	2007/10/01 04:59
L224	133	L223 (((parent or root or (top adj level) or (top adj most) or father or mother) near3 node) with (updat\$3 or position\$3 or locat\$3 or place\$4 or new or becom\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59



# EAST Search History

L223	1231	("20010029506"   "20010045965"   "20010056429"   "20020015034"   "20020026461"   "20020032768"   "20020054166"   "20020057297"   "20020089541"   "20020089550"   "20020109680"   "20020130907"   "20020140700"   "20020152150"   "20020154171"   "20020154175"   "20020163517"   "20020174147"   "20030004995"   "20030020762"   "20030065608"   "20030069834"   "20030095156"   "20030097325"   "20030106057"   "20030112280"   "20030115023"   "20030117432"   "20030120659"   "20030126068"   "20030126601"   "20030137541"   "20030144996"   "20030158897"   "20030160832"   "20030197736"   "20030197737"   "20030197740"   "20030210284"   "20030227458"   "20040034591"   "20040193524"   "20050075965"   "3522597"   "3688099"   "3757037"   "3930233"   "4064394"   "4085443"   "4167821"   "4227245"   "4315315"   "4317956"   "4323891"   "4366475"   "4392130"   "4418345"   "4451900"   "4455619"   "4464543"   "4514800"   "4514801"   "4524421"   "4527249"   "4528643"   "4542452"   "4546349"   "4546435"   "4555772"   "4570217"   "4613946"   "4622013"   "4633436"   "4641274"   "4648028"   "4648062"   "4648064"   "4656603"   "4663704"   "4674040"   "4677587"   "4695968"   "4696003"   "4710763"   "4713748"   "4725970"   "4729105"   "4736320"   "4739477"   "4742467"   "4744084"   "4752889"   "4763356"   "4769817"   "4772882"   "4813013"   "4815029"   "4821211"   "4831580"   "4841441"   "4849880"   "4868743"   "4872167"   "4901221"   "4910663"   "4914568"   "4922432"   "4931783"   "4933880"   "4949270") PN. OR ("4953080"   "4953106"   "4956773"   "4962475"   "4974174"   "5065347"   "5072412"   "5088052"   "5103498"   "5122972"   "5136690"   "5150457"   "5155806"   "5168554"   "5175812"   "5179643"   "5179654"   "5182705"   "5187786"   "5191645"   "5193182"   "5195183"   "5204947"   "5206951"   "5226118"   "5226161"   "5230063"   "5237680"   "5239617"   "5247651"   "5249275"   "5257345"   "5257363"   "5262761"   "5274803"   "5276785"   "5276789"   "5281597"   "5295243"   "5295261"   "5297241"	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
10/1/2007 5:34:26 AM	C:\Documents and Settings\Bryan\My Documents\BPA\SP Workspaces\10 Series\10_664_754_2.wsp					Page 33

## EAST Search History

L216	33	L214 (((parent or root or (top adj level) or (top adj most) or father or mother) near3 node) with (updat\$3 or position\$3 or locat\$3 or place\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L215	111	L214 (parent or root or (top adj level) or (top adj most) or father or mother) near3 node	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L214	1083	("20010034659"   "20020022900"   "20030004874"   "20030176940"   "20030177046"   "20030181991"   "20040046997"   "3665172"   "3810119"   "3825905"   "4006464"   "4064394"   "4096566"   "4141066"   "4276593"   "4302820"   "4312068"   "4315315"   "4323966"   "4347563"   "4399513"   "4410942"   "4413314"   "4423486"   "4428044"   "4435762"   "4443861"   "4455619"   "4456997"   "4466098"   "4471457"   "4488226"   "4493027"   "4524421"   "4546435"   "4570217"   "4609995"   "4613946"   "4615001"   "4628437"   "4635183"   "4639852"   "4641269"   "4641276"   "4644478"   "4644479"   "4648064"   "4649479"   "4656603"   "4658372"   "4663704"   "4672530"   "4675812"   "4677587"   "4682158"   "4682304"   "4683530"   "4692859"   "4692918"   "4695968"   "4703421"   "4704676"   "4709325"   "4710763"   "4719593"   "4727477"   "4733366"   "4742349"   "4750109"   "4754127"   "4785408"   "4790762"   "4803039"   "4805107"   "4813013"   "4816996"   "4817094"   "4841292"   "4872106"   "4872121"   "4891766"   "4897777"   "4897866"   "4910658"   "4910691"   "4918690"   "4958277"   "4959774"   "4965717"   "4965742"   "4965880"   "4985857"   "4991076"   "4991170"   "5008805"   "5021889"   "5042002"   "5050165"   "5051736"   "5060980"   "5068778"   "5093794"   "5121318"   "5122948"   "5124908"   "5129087"   "5131092"   "5134574"   "5136704"   "5138708"   "5140677"   "5146589"   "5151978"   "5151981"   "5159673"   "5162986"   "5163055"   "5164894"   "5166685"   "5167011"   "5168276"   "5168441"). PN. OR ("5168554"   "5175829"   "5193175"   "5202828"   "5202961"   "5212784"   "5228123"   "5233615"   "5241588"   "5245704"   "5247651"   "5251125"   "5255367"   "5258999"   "5262761"   "5271013"   "5280547"   "5283729"   "5289365"   "5291416"   "5294792"   "5295258"   "5295261"   "5297143"   "5301301"   "5302103"   "5302952"   "5303227"   "5303375"   "5303392"   "5307346"   "5307372"   "5307463"   "5309556"   "5311562"   "5317726"   "5333254"   "5335221"   "5347181"   "5349343"   "5352033"   "5359721"   "5367640"   "5371516"   "5371895"   "5377309"   "5377315"	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
10/1/2007 5:34:26 AM		C:\Documents and Settings\sterman\My Documents\10 Series\10_664_754_2.wsp	Page 35			

## EAST Search History

L208	11	(update\$3 near3 parent) node tree leaf spacing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L207	14	(update adj parent) node tree leaf distance	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L206	2	(update adj parent) node tree leaf spacing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L205	1	345/440.ccls. 715/514.ccls. 715/764.ccls. 715/853.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L204	1	1990-101229.NRAN.	DERWENT	AND	ON	2007/10/01 04:59
L203	1	(updating adj parent) node tree leaf spacing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L202	41	345/440.ccls. 715/853.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L201	4	345/440.ccls. 715/514.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L200	41	345/440.ccls. 715/853.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L199	98	(edit\$3 tree).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L198	67	(editing tree).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L197	1287	345/440.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L196	40	edit\$3 (position or location or layout or collection or arrangement) tree horizontal vertical ((spacing or distanced or distancing) same node)aligned node equally	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L195	431	edit\$3 (position or location or layout or collection or arrangement) tree horizontal vertical (spacing or distanced or distancing) aligned node equally	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L194	291	edit\$3 parent (position or location or layout or collection or arrangement) tree horizontal vertical (spacing or distanced or distancing) aligned node equally	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L193	13	hierarchi\$5 tree (drag near3 drop) ((automatic\$4 or recursiv\$2 or spontaneous\$2 or automated or reflexivly or impulsivly or voluntarily) with (position\$3 or (re adj position) or (re adj positioning) or arrang\$3 or dispos\$3 or emplacement or plac\$3 or fix\$3 or locat\$3 or situat\$3 (re adj distrib\$5) or (re adj locate) or (re adj locating) or order\$3 or (re adj order) or (re adj ordering) placement or setting or (re adj setting) or adjust\$4 or updat\$3 or distribut\$3) with parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L192	291	edit\$3 parent (position or location or layout or collection or arrangement) tree horizontal vertical (spacing or distanced or distancing) aligned node equally	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L191	31	tree (node adj editor) ((layout or position\$3 or (re adj position) or (re adj positioning) or arrang\$3 or dispos\$3 or emplacement or plac\$3 or fix\$3 or locat\$3 or situat\$3 (re adj distrib\$5) or (re adj locate) or (re adj locating) or order\$3 or (re adj order) or (re adj ordering) placement or setting or (re adj setting) or adjust\$4 or updat\$3 or distribut\$3) with parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L190	8	tree (node adj editor) layout	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L189	4	hierarchi\$5 tree (drag near3 drop) (automatic\$4 with (position\$3 or (re adj position) or (re adj positioning) or arrang\$3 or dispos\$3 or emplacement or plac\$3 or fix\$3 or locat\$3 or (re adj locate) or (re adj locating) or order\$3 or (re adj order) or (re adj ordering) placement or setting or (re adj setting)) with parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L188	13	hierarchi\$5 tree (drag near3 drop) ((automatic\$4 or recursiv\$2 or spontaneous\$2 or automated or reflexivly or impulsivly or voluntarily) with (position\$3 or (re adj position) or (re adj positioning) or arrang\$3 or dispos\$3 or emplacement or plac\$3 or fix\$3 or locat\$3 or situat\$3 (re adj distrib\$5) or (re adj locate) or (re adj locating) or order\$3 or (re adj order) or (re adj ordering) placement or setting or (re adj setting) or adjust\$4 or updat\$3) with parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L187	2	hierarchical\$2 node tree HMI editor (drag near3 drop) (parent with updat\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L186	23	Human machine interface screen navigat\$3 config\$5 design\$3 collection link\$3 hierarchical\$2 organiz\$2 screen node HMI editor ((intersect\$3 or overlap\$3 or collide or collision) or (drag near3 drop))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L185	70	tree (node adj editor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L184	9	L146 ((intersect\$3 or overlap\$3 or collide or collision) with (parent or child or node)) tree visibility	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L183	103	L146 ((intersect\$3 or overlap\$3 or collide or collision) with (parent or child or node))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L182	17	Human machine interface screen naviga\$4 config\$5 designing collection linked hierarchically organized screen nodes HMI editor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L181	13	L119 overlap	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L180	4	((("HMI") or ((Human adj Machine adj Interface))) (collision with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L179	1	hierarchi\$5 tree (drag near\$3 drop) (automatic\$4 with position with parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L178	290	edit\$3 parent (position or location or layout or collection or arrangement) tree horizontal vertical (spacing or distanced or distancing) aligned node equally parent (child or leaf)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L177	39	L131 ((intersect\$3 or overlap\$3 or collide or collision) same parent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L176	6	((("HMI") or ((Human adj Machine adj Interface))) (node near (intersect\$3 or overlap\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59



## EAST Search History

L175	359	edit\$3 parent (position or location or layout or collection or arrangement) tree horizontal vertical (spacing or distanced or distancing) aligned node	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L174	18	hierarchi\$5 tree (drag near3 drop) (automatic\$4 with (node or parent or child or leaf)) ((collide or collision or intersection) near4 (node or parent or child or leaf))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L173	1	hierarchi\$5 tree (drag near3 drop) (automatic\$4 with (\$3position\$3) with parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L172	12	(updat\$3 with hierarchy) (node with spacing)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L171	13	hierarchi\$5 tree (drag near3 drop) ((automatic\$4 or recursiv\$2 or spontaneous\$2 or automated or reflexivly or impulsivly or voluntarily) with (position\$3 or (re adj position) or (re adj positioning) or arrang\$3 or dispos\$3 or emplacement or plac\$3 or fix\$3 or locat\$3 or (re adj locate) or (re adj locating) or order\$3 or (re adj order) or (re adj ordering) placement or setting or (re adj setting) or adjust\$4 or updat\$3) with parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L170	5	hierarchi\$5 tree HMI (drag near3 drop) (node with (updat\$3 or refresh or recreate or restore or regenerate or correct))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L169	10	hierarchical\$2 node tree HMI editor (drag near3 drop)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L168	2	hierarchi\$5 node tree HMI editor (drag near3 drop) (parent with (updat\$3 or refresh or recreate or restore or regenerate or correct))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L167	4	Human machine interface screen navigat\$3 config\$5 design\$3 collection link\$3 hierarchical\$2 organiz\$2 screen node HMI editor (drag near3 drop)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L166	2	ScreenNavNodes	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L165	7	hierarchical\$2 node tree HMI editor (drag near3 drop) (parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L164	79	hierarchi\$5 tree (drag near3 drop) (node with (placement or arrangment or layout ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L163	31	L151 node parent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L162	76	L151 node	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L161	2	L151 (parent adj node) (intersect\$3 or overlap\$3 or collide or collision)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L160	583	hierarchi\$5 tree (automatic\$4 with parent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L159	18	hierarchi\$5 tree (drag near\$3 drop) (automatic\$4 with (node or parent or child or leaf)) ((collide or collision or intersection) with (node or parent or child or leaf))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L158	1	2004-315841.NRAN.	DERWENT	AND	ON	2007/10/01 04:59
L157	110	715/965.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L156	48	L146 ((intersect\$3 or overlap\$3 or collide or collision) same parent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L155	2	((("HMI") or (Human adj Machine adj Interface)) (leaf with parent) ((intersect\$3 or overlap\$3 or collide or collision) same (leaf or parent or node ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L154	12	(updat\$3 with hierarchy) (node with spacing) parent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L153	3	(715/964.ccls. or 715/965.ccls. 715/966.ccls. 715/967.ccls. 715/969.ccls. 715/970.ccls.) (parent adj node) (intersect\$3 or overlap\$3 or collide or collision)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L152	7	L151 parent adj node	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L151	195	715/967.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L150	7	(715/964.ccls. or 715/965.ccls. or 715/966.ccls. or 715/967.ccls. or 715/969.ccls. or 715/970.ccls.) AND ((intersect\$3 or overlap\$3 or collide or collision) with node) AND (intersect\$3 or overlap\$3 or collide or collision)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L149	31	Human machine interface screen navigat\$3 config\$5 design\$3 collection link\$3 hierarchical\$2 organiz\$2 screen node HMI editor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L148	0.	hierarchi\$5 tree HMI (drag near3 drop) near3 (over or "on" or "top of")(node with (updat\$3 or refresh\$3 or recreat\$3 or restor\$3 or regenerat\$3 or correct\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L147	45	L146 ((intersect\$3 or overlap\$3 or collide or collision) with (parent or child or node)) tree	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L146	21398	((("HMI") or (Human adj Machine adj Interface) or (Supervisory adj Control)) or L121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L145	22	L108 (parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L144	5	L143 (parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L143	29	L142 parent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L142	40	L141 node	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L141	43	L117 tree	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L140	5	hierarchi\$5 tree HMI (drag near\$3 drop) (node with (updat\$3 or refresh\$3 or recreat\$3 or restor\$3 or regenerat\$3 or correct\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L139	11	hierarchi\$5 tree (drag near\$3 drop) (automatic\$4 with parent) ((collide or collision or intersection) with (node or parent or child or leaf))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L138	2	L131 (intersect\$3 or overlap\$3 or collide or collision) ((updat\$3 with position) same parent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L137	3	L131 (intersect\$3 or overlap\$3 or collide or collision) ((updat\$3 with position) same node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L136	26	hierarchi\$5 tree (drag near\$3 drop) (automatic\$4 with parent) (collide or collision or intersection)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L135	3	L108 (intersect\$3 or overlap\$3 or collide or collision) ((updat\$3 with position) same node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L134	3	tree (node with visibility) (("HMI") or (Human adj Machine adj Interface))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L133	21	(intersect\$3 or overlap\$3 or collide or collision) L111	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L132	107	L131 ((intersect\$3 or overlap\$3 or collide or collision) same node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L131	12656	((("HMI") or ((Human adj Machine adj Interface))) or L121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L130	3	((("HMI") or ((Human adj Machine adj Interface))) (intersect\$3 or overlap\$3 or collide or collision) ((updat\$3 with position) same node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L129	6	hierarchi\$5 tree (drag near3 drop) (node with (placement or arrangment or layout )) ((collide or collision or intersection) with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L128	4	"screen navigation editor"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L127	2	((("HMI") or ((Human adj Machine adj Interface))) (collision near3 node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L126	28	hierarchi\$5 tree (drag near\$3 drop) (node with (placement or arrangement or layout )) (collide or collision or intersection)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L125	3	L121 (intersect\$3 or overlap\$3 or collide or collision) ((updat\$3 with position) same node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L124	12	((("HMI") or ((Human adj Machine adj Interface))) (node with (intersect\$3 or overlap\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L123	8	((("HMI") or ((Human adj Machine adj Interface))) (node near\$3 (intersect\$3 or overlap\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L122	3	((("HMI" with edit\$3) or ((Human adj Machine adj Interface) with edit\$3)) collision	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L121	8084	((monitoring or program\$4 or controll\$3) same ((automation with machine) or (automation with process\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L120	275	((("HMI") or ((Human adj Machine adj Interface))) collision	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59



# EAST Search History

L119	102	("20040205726" "20040015928" "20040205536" "20040205535" "20040163046" "20050243735" "20050063337" "20050116953" "20050038533" "20040006744" "20040003348" "20040006614" "20040015486" "20040024625" "20060155654" "20040032422" "20040044636" "20040044702" "20040053645" "20040064556" "20040064523" "20040064522" "20040205594" "20040068521" "20040068491" "20040073579" "20040073659" "20040078264" "20050188108" "20040085912" "20040085347" "20040085329" "20040088294" "20040085367" "20040088678" "20040088305" "20040059522" "20040059521" "20040093560" "20040098474" "20060143202" "20040012641" "20040012640" "20040111711" "20040210464" "20040117336" "20040122789" "20040003349" "20040119753" "20040119743" "20040064802" "20040139080" "20040128070" "20040125114" "20040139155" "20050165548" "20040150644" "20040156321" "20040153568" "20040151121" "20040160464" "20040125124" "20040162743" "20050004746" "20040168119" "20040170130" "20040172347" "20040177113" "20040181547" "20040186840" "20040183695" "20040125143" "20040205638" "20040202379" "20040212616" "20040212615" "20040213190" "20040017404" "20040239701" "20040225530" "20040236800" "20040233857" "20040012638" "20040239683" "20040243616" "20040243613" "20050254429" "20040249781" "20040250237" "20040250227" "20060206511" "20040046864" "20060156314" "20040263513" "20040267873" "20040267694" "20040107184" "20040236655" "20050010906" "20050010592" "20040205726" "20050063313" "20040015928" "20040163046" "20050243735" "20050063337" "20050116953" "20050038533" "20040003348" "20040006614" "20040015486" "20040024625" "20060155654" "20040032422" "20050076055" "20040044636"	US-PGPUB	OR	ON	2007/10/01 04:59
10/1/2007 5:34:26 AM		Page 49				
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## EAST Search History

L118	5	L117 tree (parent with node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L117	149	L108 (screens)!	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L116	108	(HMI adj editor) or (Human Machine Interface adj editor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L115	71	(HMI with editor) or ((Human Machine Interface) with editor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L114	37	(intersect\$3 or overlap\$3 or collide or collision) L108(updat\$3 with position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L113	15	(US-20020120921-\$).did. or (US-6975914-\$ or US-6889096-\$ or US-6754885-\$ or US-6054986-\$ or US-4914568-\$ or US-5301301-\$ or US-6618856-\$ or US-5386459-\$ or US-6862105-\$ or US-5566333-\$ or US-5911145-\$ or US-7017116-\$ or US-6549221-\$ or US-6684264-\$).did.	US-PGPUB; USPAT	AND	ON	2007/10/01 04:59
L112	1	(intersect\$3 or overlap\$3 or collide or collision) L111 (updat\$3 with position)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L111	203	("20040205726" "20040015928" "20040205536" "20040205535" "20040163046" "20050243735" "20050063337" "20050116953" "20050038533" "20040006744" "20040003348" "20040006614" "20040015486" "20040024625" "20060155654" "20040032422" "20040044636" "20040044702" "20040053645" "20040064556" "20040064523" "20040064522" "20040205594" "20040068521" "20040068491" "20040073579" "20040073659" "20040078264" "20050188108" "20040085912" "20040085347" "20040085329" "20040088294" "20040085367" "20040088678" "20040088305" "20040059522" "20040059521" "20040093560" "20040098474" "20060143202" "20040012641" "20040012640" "20040111711" "20040210464" "20040117336" "20040122789" "20040003349" "20040119753" "20040119743" "20040064802" "20040139080" "20040128070" "20040125114" "20040139155" "20050165548" "20040150644" "20040156321" "20040153568" "20040151121" "20040160464" "20040125124" "20040162743" "20050004746" "20040168119" "20040170130" "20040172347" "20040177113" "20040181547" "20040186840" "20040183695" "20040125143" "20040205638" "20040202379" "20040212616" "20040212615" "20040213190" "20040017404" "20040239701" "20040225530" "20040236800" "20040233857" "20040012638" "20040239683" "20040243616" "20040243613" "20050254429" "20040249781" "20040250237" "20040250227" "20060206511" "20040046864" "20060156314" "20040263513" "20040267873" "20040267694" "20040107184" "20040236655" "20050010906" "20050010592" "20040205726" "20050063313" "20040015928" "20040163046" "20050243735" "20050063337" "20050116953" "20050038533" "20040003348" "20040006614" "20040015486" "20040024625" "20050155654" "20040032422" "20050076055" "20040044636"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/01 04:59
10/1/2007 5:34:26 AM C:\Documents and Settings\Stefan\My Documents\AST\Workspaces\10 Series\10_664_754_2.wsp					Page 51	

## EAST Search History

L110	46	("HMI" with editor) or ((Human adj Machine adj Interface) with editor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L109	96	("HMI" with edit\$3) or ((Human adj Machine adj Interface) with edit\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L108	1700	((monitoring or program\$4 or controll\$3) with ((automation near2 machine) or (automation near2 process\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L107	2	"5911145".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L106	2	("20020120921").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/01 04:59
L105	8	"6055369".pn. "6407758".pn. "5812135".pn. "5911145".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/01 04:59
L104	445	715/514.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L103	1635	700/83.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L102	82	715/726.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L101	1635	700/83.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L100	445	715/514.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L99	728	715/854.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L98	48	(HMI or (Human adj Machine adj Interface)) and hierarc\$10 and leaf obtaining	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L97	10	(HMI or (Human adj Machine adj Interface)) and hierarc\$10 and leaf parent collision	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L96	2	"6421571".did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L95	2	"20020120921".did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L94	7	2002/0120921	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L93	2	"6618856".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L92	84	(HMI or (human-machine adj interface) or (human adj machine adj interface)) adj screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L91	69	L90 and hierarc\$10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L90	227	creat\$5 WITH (HMI or (human-machine adj interface) or (human adj machine adj interface))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L89	28	hierarch\$9 specification and (HMI or (human-machine adj interface) or (human adj machine adj interface)) WITH link	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L88	49	hierarch\$9 specification and (HMI or (human-machine adj interface) or (human adj machine adj interface)) SAME link	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L87	401	hierarch\$9 specification and (HMI or (human-machine adj interface) or (human adj machine adj interface)) link	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L86	36	hierarch\$9 (root adj node) (specification SAME (HMI or ((human-machine adj interface) or (human adj machine adj interface))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L85	53	L84 and edit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L84	82	L82 and linking	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L83	315	L82 and links	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L82	503	(Human adj Machine adj Interface) and navigation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L81	140	(Human adj Machine adj Interface) and navigating	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L80	291	(Human adj Machine adj Interface) and editor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L79	93	L78 and hierarch\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L78	221	L75 node same link	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L77	628	L75 node link	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L76	819	L75 node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L75	3389	(Human adj Machine adj Interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L74	6	first adj (Human adj Machine adj Interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L73	1184	button and (Human adj Machine adj Interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L72	1094	700/204.ccls. or 700/15-17.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L71	859	700/17.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59



## EAST Search History

L70	28	(second adj screen) and (Human adj Machine adj Interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L69	28	second adj screen and (Human adj Machine adj Interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L68	172	zoom and (Human adj Machine adj Interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L67	11	zoom and HMI adj editor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L66	24	Specify adj root adj node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L65	22	L60 and 715/762.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L64	4	L63 and 715/762.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L63	1294	L62 arrangement	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L62	2565	L61 relationship	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L61	3400	L60 and specification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L60	5896	hierarch\$9 (root adj node)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L59	105	L58 industrial	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L58	378	L57 and interface	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L57	385	hierarch\$9 (root adj node) editor, navigation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L56	28	(715/771).cccls. and hierarch\$9 root	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L55	109	(715/771).cccls. and hierarch\$9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L54	13	L53 and specification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L53	21	L52 and root	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L52	104	(715/771).ccls. and node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L51	4	editor hierarch\$9 (root adj node) (specification or Specify) SAME (HMI or (Human adj Machine adj Interface))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L50	3	editor hierarch\$9 (root adj node) (specification or Specify) with (HMI or (Human adj Machine adj Interface))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L49	625	(715/762).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L48	48	providing screen navigation editor hierarch\$9 (HMI or (Human adj Machine adj Interface)) screen node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L47	25	providing screen navigation editor linked hierarch\$9 HMI screen node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L46	4	L45 and zoom	US-PGPUB; USPAT	OR	ON	2007/10/01 04:59

## EAST Search History

L45	17	("5042002" "5093794" "5377309" "5398336" "5412756" "5548756" "5787438" "5815539" "5911143" "5920711" "5943675" "6028819" "6081750" "6108662" "6157864" "6161051" "6167406").pn.	US-PGPUB; USPAT	OR	ON	2007/10/01 04:59
L44	33	("5042002" "5093794" "5377309" "5398336" "5412756" "5548756" "5787438" "5815539" "5911143" "5920711" "5943675" "6028819" "6081750" "6108662" "6157864" "6161051" "6167406").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/01 04:59
L43	488	(HMI or (Human adj Machine adj Interface)) and hierarc\$10 and (specification)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L42	488	(HMI or (Human adj Machine adj Interface)) and hierarc\$10 and specification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L41	6	("5301301"   "5592600"   "6054986"   "6437805"   "6449624"   "6593947").PN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/01 04:59
L40	5	(715/771).cccls. and (715/762).cccls. and hierarch\$9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L39	21	(715/771).cccls. and (715/762).cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L38	29	(715/771).cccls. and (715/763).cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L37	382	(715/771).cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L36	3	L34 and leaf and node zoom	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L35	12	L34 and leaf and node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L34	48	(HMI or (Human adj Machine adj Interface)).ab. and hierarc\$10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L33	19	(HMI or (Human adj Machine adj Interface)).ti. and hierarc\$10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L32	339	(HMI or (Human adj Machine adj Interface)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L31	78	((HMI) or (Human adj Machine adj Interface)) and hierarch\$7 and zoom\$5 and (render or supply or provide or furnish or yield or return or give, or deliver or depict or show or display)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L30	11	L29 and zoom\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L29	13	((HMI adj editor) or ((Human adj Machine adj Interface) adj editor)) and hierarch\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L28	13	((HMI adj editor) or ((Human adj Machine adj Interface) adj editor)) and hierarch\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L27	6	09/607369	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L26	62	((HMI adj editor) or ((Human adj Machine adj Interface) adj editor) or (man adj machine adj interface)) and (user adj screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L25	15	(HMI adj editor) or (Human adj Machine adj Interface adj editor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L24	108	(HMI adj editor) or (Human Machine Interface adj editor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L23	15	HMI adj editor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L22	4900	(HMI or (Human adj Machine adj Interface))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L21	102	L20 and (HMI or (Human adj Machine adj Interface))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L20	3126	715/854.ccls. or 715/514.ccls. or 700/83.ccls. or 700/20.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L19	1156	715/854.ccls. or 715/514.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L18	728	715/854.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L17	445	715/514.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L16	1635	700/83.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L15	405	700/20.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L14	187	L3 and node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L13	503	L2 navigation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59

## EAST Search History

L12	3389	(human-machine adj interface) or (human adj machine adj interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L11	0	hmi same vrml	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L10	21	(715/771).ccls. and (715/762).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:59
L9	728	715/854.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:58
L8	445	715/514.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:58
L7	1	1990-101229.NRAN.	DERWENT	AND	ON	2007/10/01 04:58
L6	401	hierarch\$9 specification and (HMI or (human-machine adj interface) or (human adj machine adj interface)) link	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:58
L5	11	zoom and HMI adj editor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:58
L4	187	L3 and node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:58



## EAST Search History

L3	503	L2 navigation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:58
L2	3389	(human-machine adj interface) or (human adj machine adj interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/10/01 04:58